Version 1.0

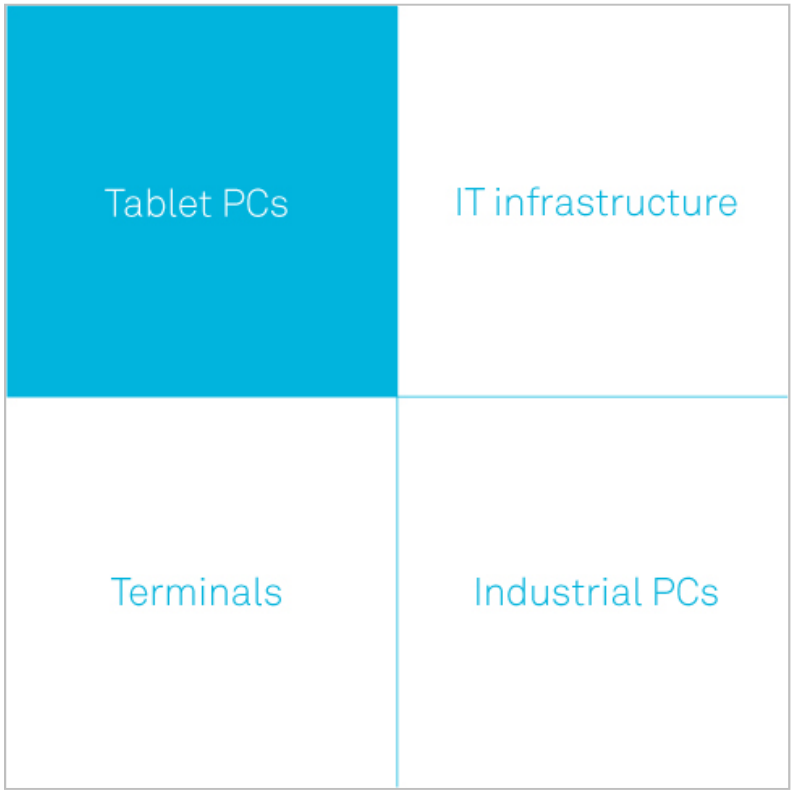
User Manual

Tablet PCs
ITC1013

adstec

the rugged world of IT®

Product Portfolio



Copyright
© ads-tec GmbH
Raiffeisenstr.14
D-70771 Leinfelden-Echterdingen
Germany

INDEX

ABOUT US **5**

1 REMARKS **6**

1.1 RELEVANT DATA COMMUNICATION WITH THE DEVICE 6
1.2 DESCRIPTION OF THE WARNING SYMBOLS USED IN THIS GUIDE 6
1.3 DATA, IMAGES, AMENDMENTS AND VARIATIONS 6
1.4 TRADEMARKS 6
1.5 COPYRIGHT 7
1.6 CERTIFICATIONS / TESTS 7
1.7 SCOPE OF DELIVERY 7

2 OPERATING INSTRUCTIONS **8**

2.1 OPERATING LOCATION 8
2.2 DAMAGES DUE TO IMPROPER USE 8
2.3 WARRANTY / REPAIRS 9
2.4 HANDLING AND PROPER DISPOSAL OF LITHIUM BATTERIES 9
2.5 SAFETY INSTRUCTIONS 9
2.6 EXTERNAL DEVICE DIMENSIONS 10

3 COMMISSIONING **11**

3.1 AVAILABLE INTERFACES 11
3.2 READINESS FOR OPERATION CHECKS 12
3.3 TOUCHSCREEN 12

4 FRONT PANEL FUNCTIONS **13**

4.1 STATUS INDICATORS 13
4.2 FRONT CONTROL KEYS 15

5 INTERFACES **17**

5.1 20V DC POWER SUPPLY 17
5.2 14.4V DC BATTERY OPERATING MODE 17
5.3 USB CONNECTIONS 19
5.4 ODU-INTERFACE (OPTIONAL) 20
5.5 NETWORK CONNECTION (RJ45) 22
5.6 MICROPHONE IN FRONT PANEL 22
5.7 SMART-CARD READER (OPTIONAL) 23

6 SOFTWARE & DRIVER INSTALLATION **24**

6.1 CONFIGURATION CENTER 24
6.2 POWER DISPLAY 25
6.3 USB LOCK 25
6.4 POWER BUTTON CONFIGURATION 25
6.5 ADS-TEC RFID SAMPLE APPLICATION 26
6.6 SOFT KEYBOARD 26
6.7 SCREEN MOB SETTINGS 27
6.8 TT13 WIRELESS KONFIGURATION 28
6.9 TT13 TOUCH ROTATION 30

6.10 ITC1013 ADSXTERN TEST 31
6.11 MANUAL REINSTALLATION 31
6.12 INSTALLATION OF THE TT13 SOFTWARE PACKAGE 32
6.13 WLAN 32
6.14 BLUETOOTH 35
6.15 UMTS (OPTIONAL) 36
6.16 CAMERA (OPTIONAL) 38
6.17 SOFT KEYBOARD 41
7 ACCESSORIES 43
7.1 DVD DRIVE / EXTERNAL TYPE (OPTIONAL 43
7.2 LASER PRODUCT SAFETY 44
7.3 TRANSPORT CASE 45
7.4 BATTERY CHARGING STATION C4/TT13 46
7.5 SUBSTITUTION POWER SUPPLY 50
7.6 CAR POWER SUPPLY 50
7.7 SUBSTITUTION-BATTERY 50
7.8 TT13 MECHANICAL DOCKING ADAPTER 51
7.9 TABLE STAND 53
7.10 WALL BRACKET 54
7.11 ITC1013 SUBSTITUTION PACK OF TOUCH STYLUS 54
7.12 3 POINT CORD 55
7.14 HAND GRIFF 59
7.16 ODU 10POL TO RS232 ADAPTERCABLE 1M 61
7.17 PROTECTION BEZEL 61
8 CERTIFICATIONS 62
8.1 CERTIFICATIONS / TESTS 62
8.2 ELECTROMAGNETIC COMPATIBILITY (EMC) 62
9 TECHNICAL DETAILS 63
9.1 DISPLAY DATA 63
9.2 COMPUTER DATA 63
9.3 GENERAL DATA 63
10 SERVICE AND SUPPORT 64
10.1 ADS-TEC SUPPORT 64
10.2 COMPANY ADDRESS 64
11 COMPONENT REPLACEMENT 65
11.1 OPENING THE SERVICE SLOT 65
11.2 HDD/SSD (MASS-STORAGE DEVICE) REPLACEMENT 67
11.3 REPLACING THE LITHIUM BATTERY 68
12 CE CONFORMITY DECLARATION 69

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

About us

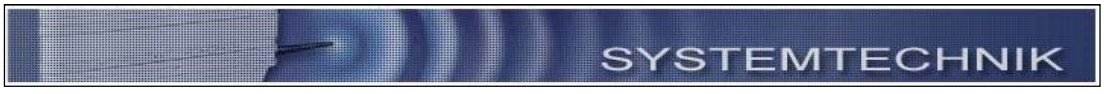
ads-tec GmbH
Raiffeisenstr. 14

D-70771 Leinfelden-Echterdingen
Tel: +49 711 45894-0
Fax: +49 711 45894-990
www.ads-tec.com

ads-tec GmbH provides large enterprises and globally active corporations with cutting edge technology, up-to-date know-how and comprehensive services in the area of automation technology, data processing technology and systems engineering.

ads-tec GmbH implements full automation solutions from planning to commissioning and is specialized in handling and material handling technologies.

The data systems division develops and produces PC based solutions and offers a broad range of industrial PCs, thin clients and embedded systems.



ads-tec is specialized in modifying and optimizing embedded operating systems and develops software tools to complement its hardware platforms.

1 REMARKS

1.1 RELEVANT DATA COMMUNICATION WITH THE DEVICE

The following documents are essential for setting up and operating this device:

USER MANUAL:

Contains information for installation, commissioning and operating the device along with technical data of the device hardware.

1.2 DESCRIPTION OF THE WARNING SYMBOLS USED IN THIS GUIDE

Warning:

The "Warning" symbol precedes warnings on uses or operations that might either lead to personal injury and/or hazards, or to any hardware and software damages.

Note:

This Symbol indicates special notes, terms and/or conditions that strictly need to be observed to ensure optimised and/or zero-defect operations. It also precedes tips and suggestions for efficient unit implementation and software optimisation.

1.3 DATA, IMAGES, AMENDMENTS AND VARIATIONS

All texts, data and figures are non-binding. All these materials are subject to modification due to technological advances. Our products comply with all provisions and requirements of the legislation at the point in time when the products leave our company premises. The operator/operating company bears sole responsibility for the compliance with any consecutive new technological development or adherence to any consecutive new legislatory provision, as well as for the observance of their obligation as the operator/operating company.

1.4 TRADEMARKS

It is hereby notified that any software and/or hardware trademarks further to any company brand names as mentioned in this User's Guide are all strictly subject to the various trademark, brand name and patent protection rights.

Windows®, Windows® CE are registered trademarks of Microsoft Corp.
Intel®, Pentium®, Atom™ , Core™2 are registered trademarks of Intel Corp.
IBM®, PS/2® and VGA® are registered trademarks of IBM Corp.
CompactFlash™ and CF™ are registered trademarks of SanDisk Corp.
RITTAL® is a registered trademark of the Rittal Werk Rudolf Loh GmbH & Co. KG.

Any further additional trademarks and/or brand names herein, be they domestic or international, are hereby duly acknowledged.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

1.5 COPYRIGHT

This User's Guide inclusive of all the images it contains is entirely proprietary and subject to copyright. Any irregular use of this Guide by third parties infringing copyright terms is thus strictly forbidden. Reproduction, translation, as well as electronic and photographic image storage and/or amendment processes, are subject to prior written authorisation directly by M/s. ads-tec GmbH.

Any violation and infringement thereto will be held liable for compensation of all damages.

1.6 CERTIFICATIONS / TESTS

The product is compliant with section ITC1013 CE Declaration listed documents / standards.

Warning:

This equipment belongs to class A. It can cause interference in domestic areas. Should this happen, the operator might be required to take appropriate preventive measures.

1.7 SCOPE OF DELIVERY

The following components are included in the scope of delivery:

- 1 x device
- 1 x 20V DC power supply unit
- 2 x batteries

AS AN OPTION:

- 1 x DVD drive, external
- 1 x transport case

2 Operating instructions

This device contains electrical voltages and extremely sensitive components. The manufacturer, or a service partner authorised by the manufacturer, should be consulted if you plan to make any modifications. For this type of work, the device must be switched off at the mains and the power lead must be disconnected. Suitable measures for avoiding electrostatic discharge towards parts of the components when touching the equipment must be taken. If the device is opened by an unauthorised person, hazards for the user might arise and any warranty claim will cease.

General instructions:

- All users must read this manual and have access to it at all times.
- Installation, commissioning and operation may only be carried out by trained and qualified staff.
- The security instructions and the manual itself must be observed by all persons who work with this device.
- At the location of use the valid guidelines and regulations for accident prevention must be observed.
- The manual contains the most important instructions on how to use this device in a safe way.
- Appropriate storage, proper transport, installation and commissioning, as well as careful operation are prerequisites for ensuring safe and proper operation of the device.

Warning:

Any leads (e.g. power leads, interface cables) may only be connected if the device is switched off in order to avoid damaging the device.

2.1 Operating location

This device is designed for professional and portable use indoors and outdoors. You have to take care that the environmental conditions specified in the technical data specification are met.

Warning:

The device may only be switched on after acclimatising to the ambient temperature in order to avoid condensate accumulation. The same applies if the device has previously been exposed to extreme temperature variations.

To avoid overheating in operation: The device must not be exposed to direct radiation by sunlight or any other light or heat source.

2.2 Damages due to Improper Use

Should the service system have evident signs of damages incurred e.g. due to wrong operation or storage conditions or due to improper unit use, the unit must be decommissioned or scrapped. Ensure that it is safe from accidental re-implementation.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

2.3 WARRANTY / REPAIRS

During the unit warranty period, any repairs thereto must strictly be conducted solely by the manufacturer or by service personnel that has been duly authorised by the manufacturer.

2.4 HANDLING AND PROPER DISPOSAL OF LITHIUM BATTERIES

This device contains a lithium battery to supply the systemclock until there is no power supply connected. Depending on exposure, the battery has a lifetime of 3-5 years.

Note:
High thermal exposure will age the battery faster.

Warning:
By using the wrong types of batteries, there is acute danger of explosion.

Warning:
Lithium batteries should not be exposed to fire, soldered, recharged, opened, short-circuited, reversed or heated above 100 °C and they should be disposed of properly as well as protected against sunlight, moisture and condensation.

The lithium battery can only be replaced by the same type or a type recommended by the manufacturer.

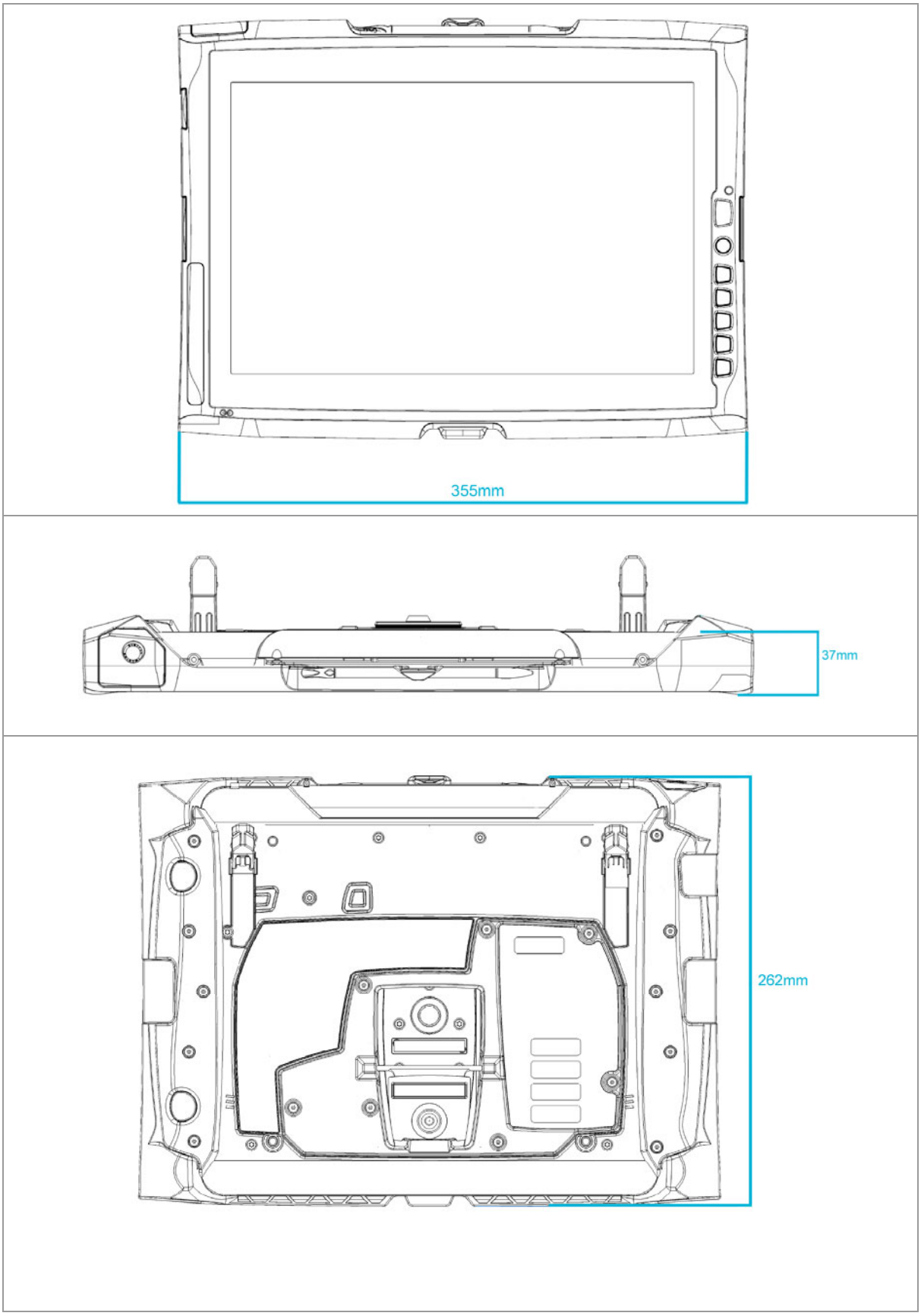
The used lithium battery should be disposed of in accordance with local legal regulations.

2.5 SAFETY INSTRUCTIONS

Warning:
All unit assembly operations must be strictly conducted only under safe, secure and zero-potential conditions.

Special Note:
When handling parts and components susceptible to electrical discharge, please accurately observe all the relevant safety provisions.
(DIN EN 61340-5-1 / DIN EN 61340-5-2 refers)

2.6 EXTERNAL DEVICE DIMENSIONS



© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

3 Commissioning

The power supply connection and interfaces of this device are installed at the side of case. All supply leads and all required data leads have to be connected before starting commissioning.

Warning:

The device must be switched off before connecting or disconnecting any cables in order to prevent damage to the electronics!

The device may only be switched on after acclimatising to the ambient temperature in order to avoid condensate accumulation. Make sure to meet the permissible voltage requirements for this device.

After switching off and before switching on you must wait for at least 10 seconds.

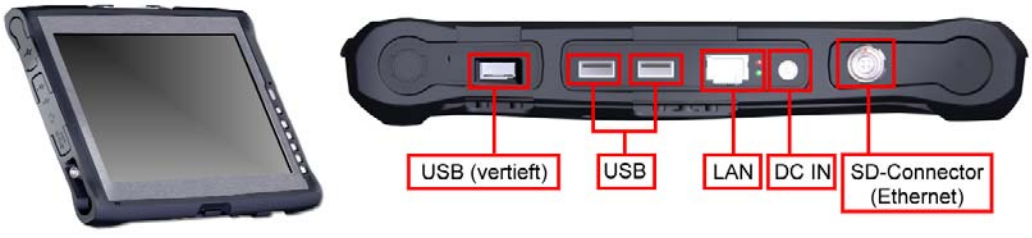
Note:

The screen of a data cable must always be connected with the connector housing (EMC).

Under the embedded operating system, interfaces must explicitly be enabled and required drivers must be installed in order to be able to use them.

3.1 Available interfaces

Schnittstellenübersicht Rechts



Schnittstellenübersicht Links

3.2 READINESS FOR OPERATION CHECKS

Accurately check the unit for any hidden damages possibly incurred during improper transport and/or handling or wrong operation site and/or storage conditions (e.g. smoke emissions or formation by the unit, etc.). If any damages are found, the unit must be decommissioned or scrapped. Ensure that it is safe from accidental re-implementation.

3.3 TOUCHSCREEN

The control system is equipped with an analogue, resistive touchscreen. The driver software required for its use is already integrated in the respective operating system.

TOUCH STYLUS

Note:

This device is equipped with a supplied touch stylus for comfortably operating the touchscreen. This stylus should be used for all works on the device in order to avoid damage to the display.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

4 FRONT PANEL FUNCTIONS

4.1 STATUS INDICATORS

This device is equipped with different status LEDs in the front. These LEDs indicate current events, like the system activity state, the current accumulator charge status and WLAN activities.

SYSTEM LED INDICATORS	DISPLAY BEHAVIOUR	DESCRIPTION
	-	The device is not connected to any power supply (power adapter/accumulator)
	Static	The device is connected to a power supply (power adapter/accumulator) and switched on
	Flashes	The device is in suspend mode (this mode can be set up using the operating system, re-activation via power button)
	Static	Device is accessing the HDD
POWER LED INDICATORS		
	-	Device is not connected to any power supply
	Static	Device is supplied by the charged accumulator
	Static	Device is supplied from an external power supply
	Flashes	Internal accumulators of the device are charged (device must be connected to a power supply (power adapter)
	Static	Device works with the accumulators' residual capacity

WLAN LED INDICATORS		
	Static	Device is not connected with a WLAN network
	Static	Device is connected with a WLAN network
	Flashes	Device is connected with a WLAN network and has data traffic
BLUETOOTH LED INDICATORS		
	Static	Bluetooth module is disabled.
	Static	Bluetooth module is enabled.
	Flashes	Device is connected with a Bluetooth subscriber and has data traffic

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

4.2 FRONT CONTROL KEYS

The keys on the front panel are occupied with the following functions by a specific driver in the soft keyboard:

SYMBOL:	FUNCTION:
	ON / OFF pushbutton for the device (approx. 0,5 seconds delayed)
	Shift key (SHIFT) for activating the second keyboard level. This key must be pressed simultaneously with the desired function key
	Level 1: Change task (Alt+ESC) in Windows Level 2: Increase the system volume
	Level 1: Switch from Potrait view to Landscape view Level 2: Decrease the system volume
	Level 1: Right mouse-key function Level 2: Increase display brightness
	Level 1: Activate and deactivate the soft keyboard for letter/character input using the touchscreen. Level 2: Decrease display brightness

Warning:

The front control keys should not be operated with a touch stylus but with the fingers, only.

Note:

All function keys in the front panel, except for the ON / OFF pushbutton and the Fn button, have 2 function levels each. The primary function is activated by simply pushing the respective key. The second function level (small symbol to the top right) can be activated each time by pushing the Fn key first, and then additionally pushing the desired function key. It is essential to keep the Fn key always pushed in order to activate the second function level.

Note:

If the software keyboard is not installed, only the functions for display settings and volume control are active. The controller display will not be output on the display, in this case. Above described functions are pre-set ex works.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

5 INTERFACES

5.1 20V DC POWER SUPPLY

TECHNICAL DATA OF THE POWER ADAPTER

- Power consumption: Max. 70 Watts
- Input voltage: 100…240 V AC
- Mains frequency: 50…60Hz

- Current consumption: 3.5A (230V AC)
- Max. switch-on current: < 60A (230V AC)

Note:

The typical power consumption of this device is indicated in the "Technical details" chapter.

5.2 14.4V DC BATTERY OPERATING MODE

The device is equipped with two batteries slots, by means of which the device can be supplied with power, alternatively. It is provided with a hot swap function which allows you to replace the batteries without rebooting.

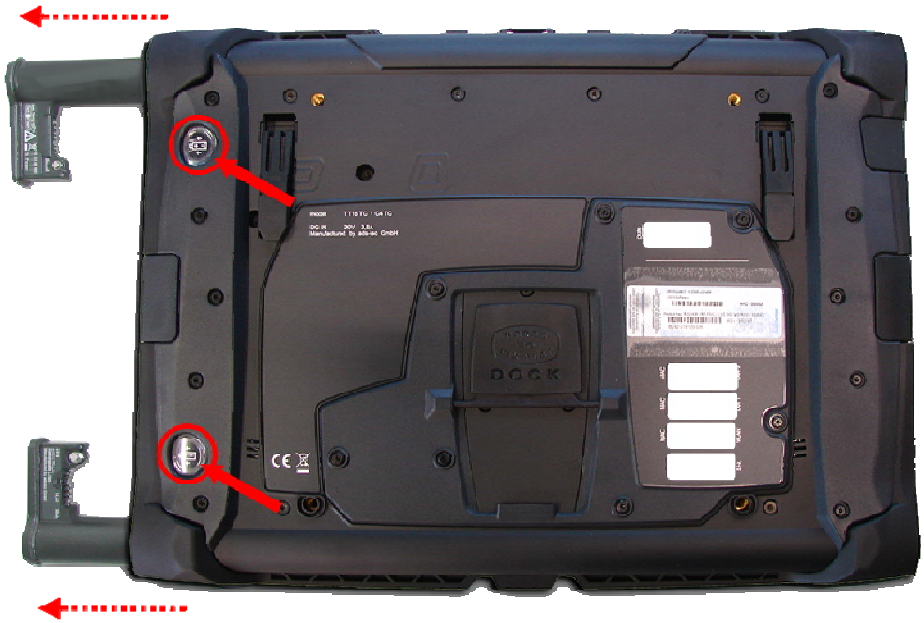
The batteries are automatically charged in mains operation (20V DC).

Note:

If both batteries are to be replaced while operating the unit, power supply must be ensured by attaching the supplied power adapter. If you want to replace just one battery, you can do this without attaching an external power supply.

BATTERY STATUS REPLACEMENT

The TT13 batteries can be removed by using a mechanical ejector on the back of the device.



The batteries status can be retrieved by pushing a button on the batteries. The batteries display will light up for a few seconds and show the current batteries charge status on a scale from 0 to 100. If the display lights red, this represents a weak battery. If the display is green, it shows that the battery is fully charged. If the device is in operating mode, the battery status can be retrieved by using the supplied Battery Information & Diagnostics Tool.

Note:

*The "**Hardware specific software**" chapter describes the Battery Information & Diagnostics Tool, which can be used for retrieving the accumulator status while operating the unit.*

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

5.3 USB CONNECTIONS

The USB interfaces are used for connecting peripherals with USB connection. The interfaces comply with the USB 2.0 standard.

PIN NUMBER	SIGNAL NAME
1	VDC
2	D -
3	D+
4	GND

Note:

The two side USB ports together have a current limit of 1.5A. This allows trouble-free operation of external devices, like an external DVD drive. The in-depth USB interface is designed according to the standard for 0.5A.

5.4 ODU-INTERFACE (OPTIONAL)

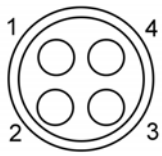
By using the SD Connector, the device can be connected to an Ethernet network (10/100 Mbit). Data throughputs of 10MB can be achieved with a maximum cable length of 5m.

Note:

This interface does not allow booting via the network. If you want to boot the device via the network connection, we recommend using the LAN interface.

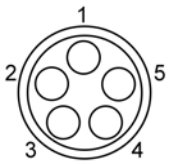
PIN-OUT: (LAN)

PIN-NUMBER	SIGNAL NAME
1	RxD+
2	RxD-
3	TxD+
4	TxD-



PIN-OUT: USB

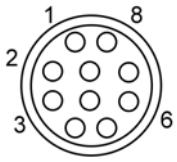
PIN-NUMBER	SIGNAL NAME
1	Data-
2	Data+
3	GND
4	VCC
5	NC



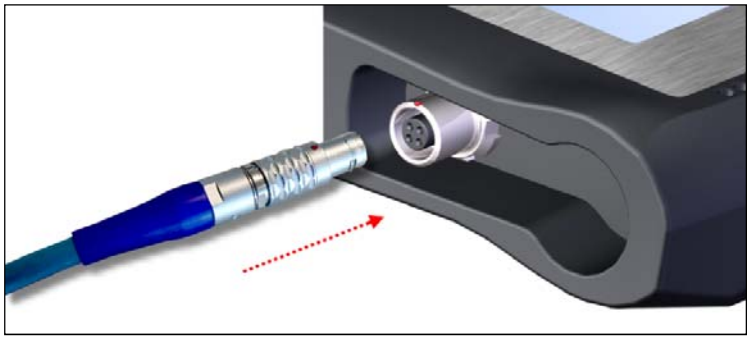
© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

PIN-OUT: RS232

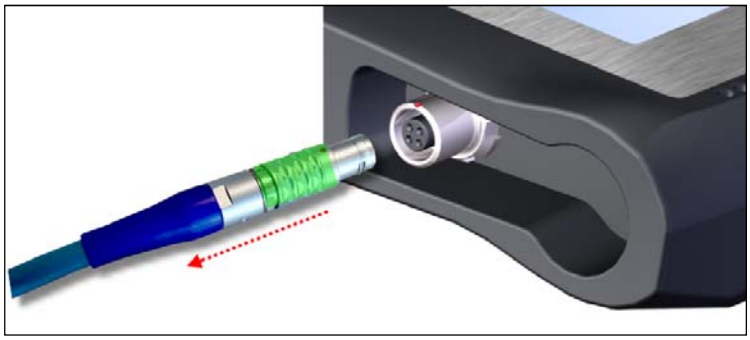
PIN-NUMBER	SIGNAL NAME
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI
10	NC



The SD Connect cable must be connected so that the red markers match.



For disconnecting the SD Connect cable, it must be pulled rearwards in the area marked in green. This loosens the snap-in mechanism at the end of the plug.



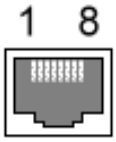
Note:

The interface is always shown in the network connections, even if the interface is not available regarding the configuration of the device. Functionality is only given, when a interface is available.

5.5 NETWORK CONNECTION (RJ45)

If the drivers required for functioning are installed on the device, the control system may be integrated in an Ethernet network supporting the 10/100 Mbit standard by using the Ethernet 10/100BaseT network connector. Specifications of this network topology must be observed in this case.

PIN NUMBER	SIGNAL NAME
1	TX +
2	TX -
3	RX +
4	NC
5	NC
6	RX -
7	NC
8	NC



5.6 MICROPHONE IN FRONT PANEL

Additionally, the device has an internal microphone in the front panel. This microphone can be configured by using the volume control integrated in the operating system.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

5.7 SMART-CARD READER (OPTIONAL)

The device offers a Smart Card Slot which is available at the side.

6 Software & driver installation

The device will be delivered with a pre-installed Windows operating system on request by the customer. The drivers required for this are already installed and the operating system will be enabled by entering the licence information. Should an initial installation be required, please follow the following steps. With a newer operating system like Windows XP, the network card and graphics card will properly be recognised during the initial installation, so that only the touchscreen driver and the soft keyboard must be installed separately.

Note:

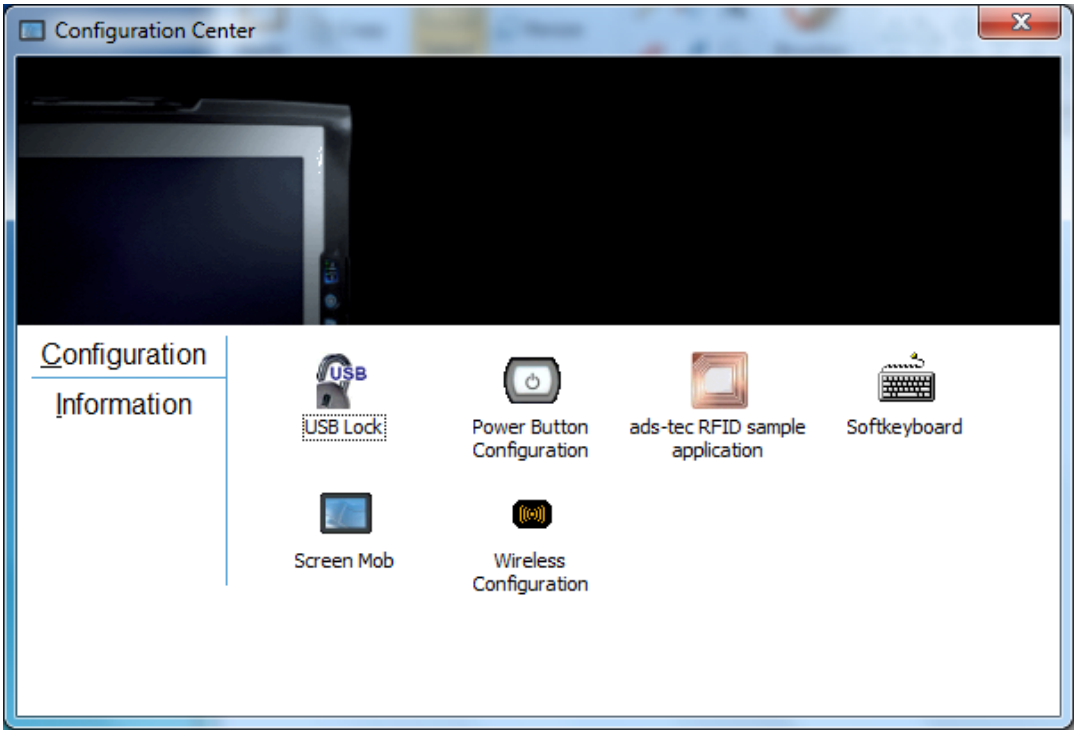
If the hard drive was formatted, the operating system can be reinstalled by using one of the existing interfaces.

An external keyboard is required for installation.

6.1 Configuration Center

Configuration

The start page of the Configuration Center provides you with an overview of which ads-tec applications are installed on the device. Additionally, you can start any of these applications from the Configuration Center by double-clicking on it.



Information

In the Information section, device specific data like the device type, the firmware version and the serial number are listed. The information you'll find here must be indicated whenever you need to contact the support department.

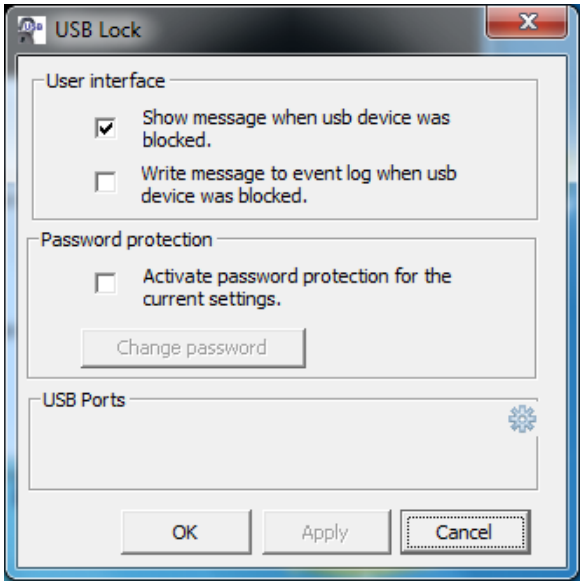
© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

6.2 POWER DISPLAY

The power display can be administrated in the system control menu regardless of which operating system is used.

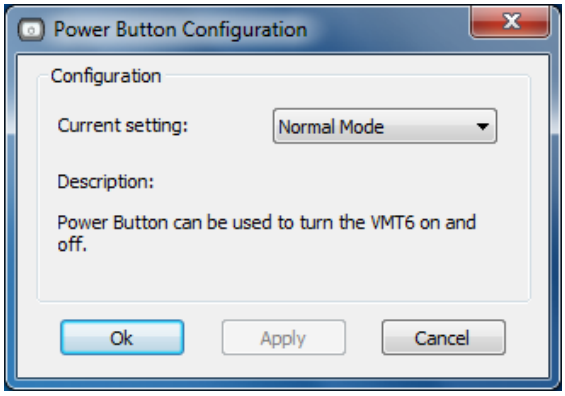
6.3 USB LOCK

The existing USB interfaces can be locked by using the USB lock option. USB interfaces can individually be locked as well. Password protection can also be enabled if desired.



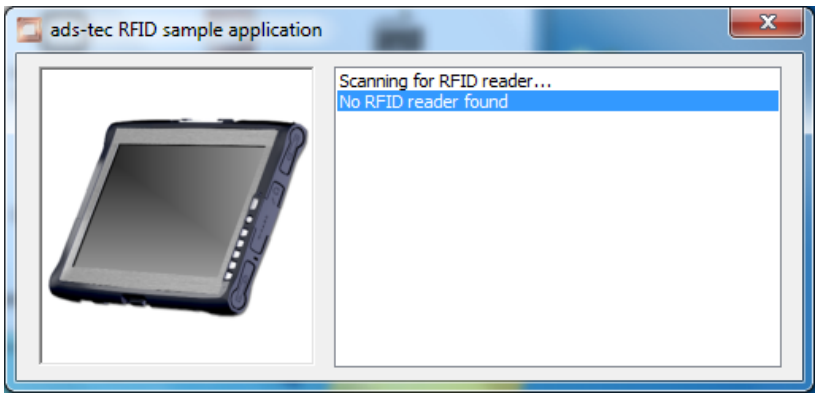
6.4 POWER BUTTON CONFIGURATION

Power button configuration can be used in Regular Mode - both functions (ON & OFF) are then enabled for the power button. In the Safe Mode, however, only the ON function is enabled.



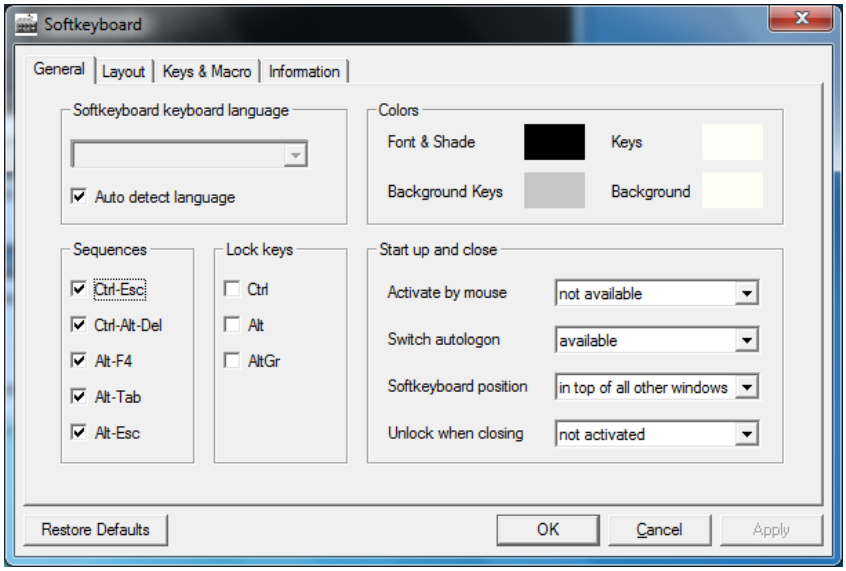
6.5 ADS-TEC RFID SAMPLE APPLICATION

The proper function of the RFID reader can be verified by using the RFID sample application.



6.6 SOFT KEYBOARD

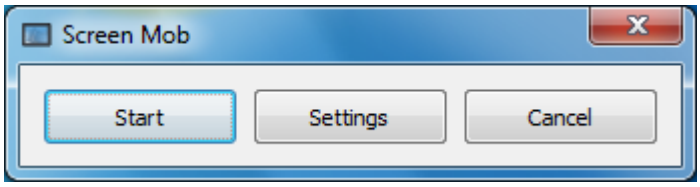
The soft keyboard application allows you to adapt more settings like the appearance, the language layout, the look, etc.

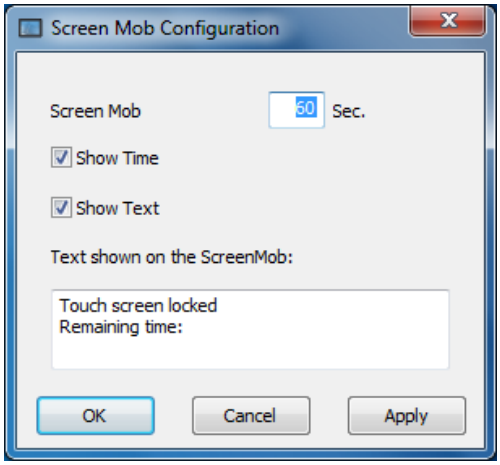


© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

6.7 SCREEN MOB SETTINGS

This application is used for safely cleaning the monitor. The touch screen monitor can be blocked in the settings for any period of time. This application is enabled via the Start menu.





6.8 TT13 WIRELESS KONFIGURATION

Hinweis:

The application is intended to activate/ deactivate the whole hardware in the device, which is intended for wireless data communication.

Die Anwendung dient zur kompletten Aktivierung / Deaktivierung der Hardware im Gerät, welche für drahtlose Datenkommunikation dient.

Depending on your device configuration the power off of the following hardware is allowed:

WLAN
Bluetooth

BLUETOOTH

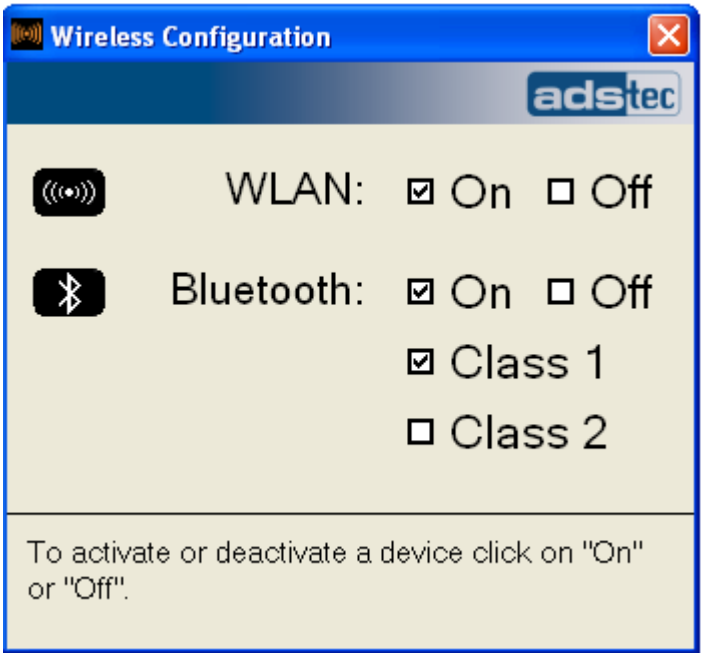
If a Bluetooth module is available, the Bluetooth class can be switched. With Class 1, a range of max. 100m open air can be reached, while Class 2 is limited to a range of 10m.

After changing the Bluetooth Class it is mandatory necessary to reebot the device, because the changes will only take effect after rebooting the device.

The Switch as well as the activation and deactivation of the separate components can take several seconds.

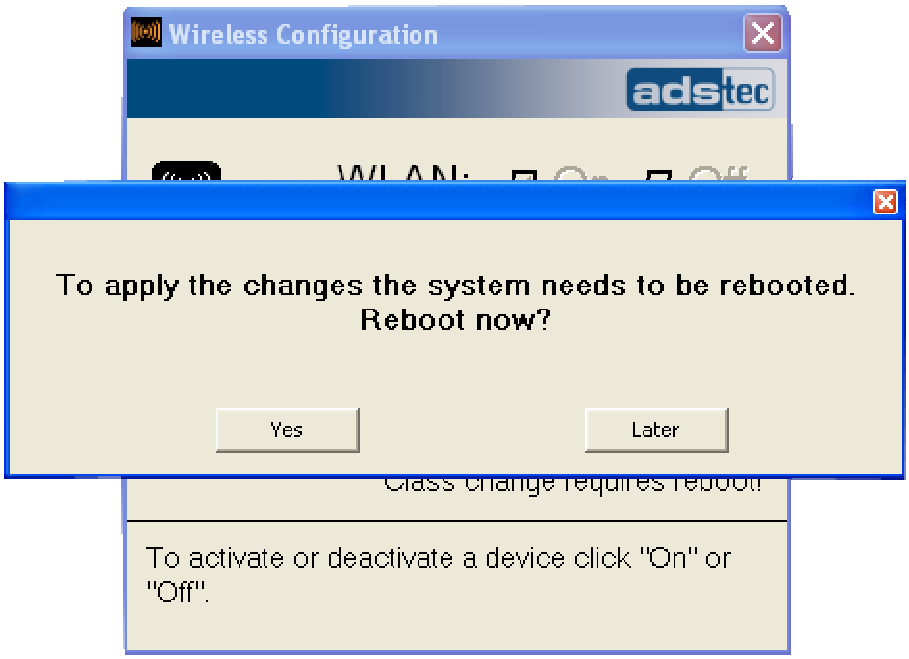
If the option "Controlled by Bios" in Advaned/Firmware is Enabled, the bios is able to activate or deactivate the several hardware components depending on the configuration in the Bios. The selected settings for the wireless configuration in Windows will be overwritten. For usage of the Wireless configuration, it is recommended to set the option Controlled by BIOS to Disabled.

WIRELESS CONFIGURATION: STANDARD VIEW



© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

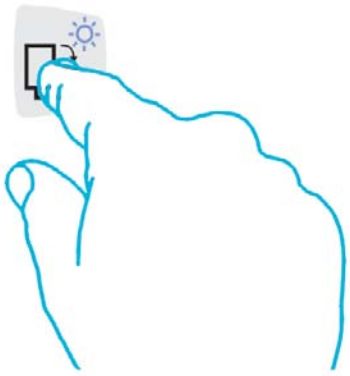
WIRELESS CONFIGURATION: BLUETOOTH CLASS-SWITCH

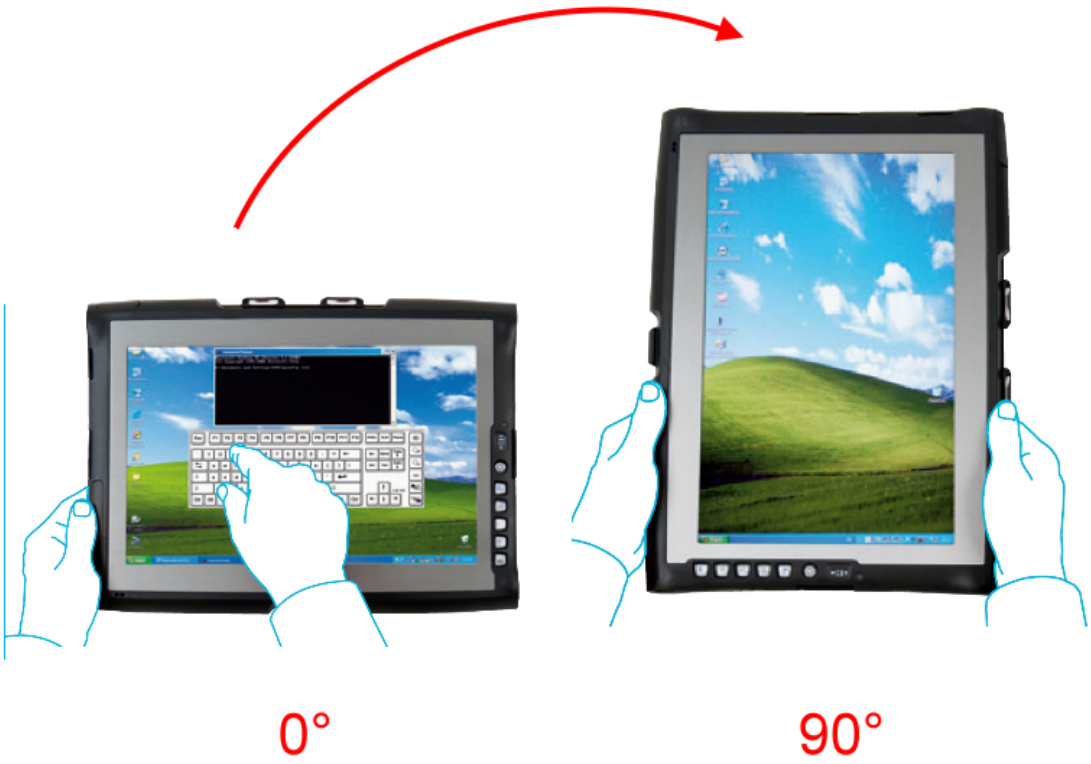


6.9 TT13 TOUCH ROTATION

Note:
The service enables the loading for the best configuration for 0° and 90°.

If the button **landscape/portrait** is activated, the switch from 0° to 90 takes effect. Pushing the button again will switch back to 0°.





Note:
Every kind of exposure needs to be calibrated once via the 25 point calibration.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

6.10 ITC1013 ADSXTERN TEST

Note:
More information for TT13 adsxtern can be seen on the Service-CD.

6.11 MANUAL REINSTALLATION

The following Stepps are only required if a reinstallation of the operating system is necessary.

INSTALLATION OF THE OPERATING SYSTEM

Install the operating system from a storage. (USB / LAN / CD/DVD)

INSTALLATION OF THE DEVICE DRIVERS FROM THE SERVICE CD

Additionally the device drivers have to be installed from the supplied Service-CD. The device drivers are placed in the directory **Driver** on the Service-CD.l

INSTALLATION OF THE TT13 TOOLS

The TT13 Software Tools can be installed via the **TT13 Tools Installation V.x.x.exe**. The Setup-File is placed in the directory Software Tools on the Service-CD.

6.12 INSTALLATION OF THE TT13 SOFTWARE PACKAGE

Note:

With the TT13 Software Tools hardware components can be controlled, monitored and evaluated. In case of high exposure the Software Tools will help to prevent lasting damage by protecting important hardware components actively. In diagnostic cases the Software Tools will give information about the system condition and enable fast troubleshooting.

Once the installation is completed, you can finish the setup by clicking on Finish.

If the recommended directory path for installation is used, the ads-tec tools are located at:

Start → Programmes → ITC1013 Tools

6.13 WLAN

The device is equipped with a wireless network card. If the operating system supports this card via drivers, the device can be integrated into a Ethernet Network with Support for 11 Mbit or 54Mbit (802.11 a/b/g). The specifications of this network topology has to be attended.

Note:

The check and settings for country code of the WLAN-Card is the users responsibility. The default settings in a german image is Germany and in a English image it is United States.

Note:

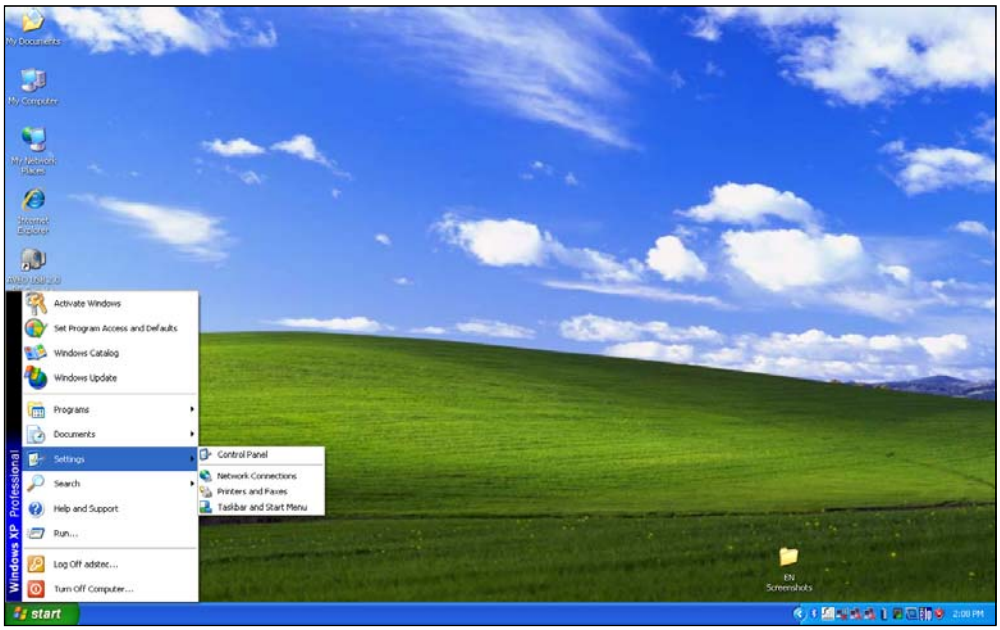
*In default condition Windows is used to manage the wireless connection. If the Atheros Client Utility should be used, you have to remove the checkbox from "**Use Windows to configure Settings**" in the path: **Start** → **Settings** → **Control Panel** → **Network Connections.** With the right mouse button you have to choose **Wireless Netowrk Connection** and navigate to the **Properties** section. Switch to the tab **Wireless Networks***

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

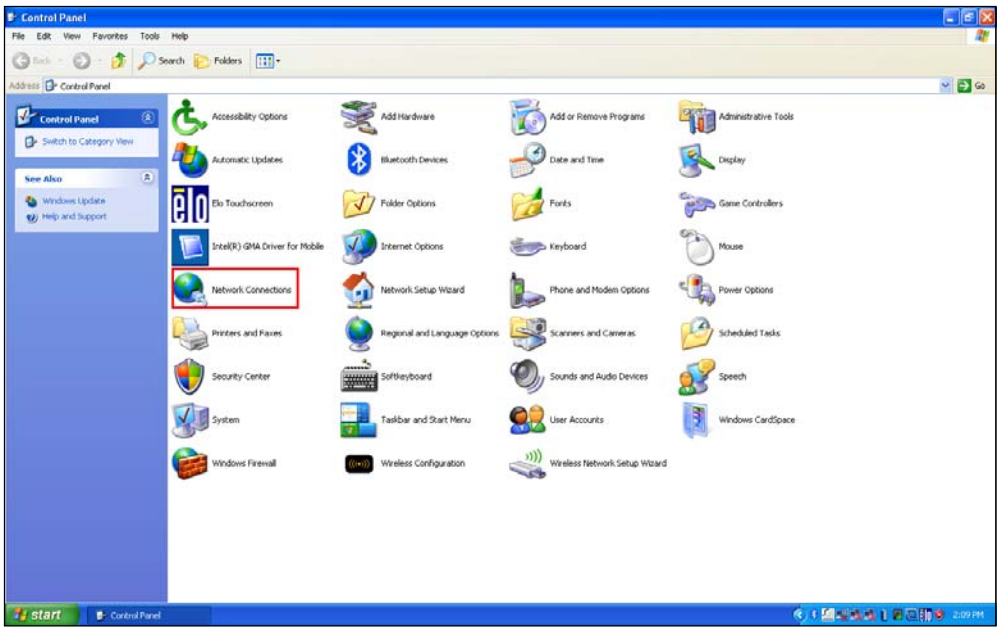
CONFIGURATION OF THE COUNTRY CODE

The default Installation of the WLAN driver, which is provided by Service-CD, installs the driver with the country code "United States". The channels 1-11 are used. The country code can be changed later. The following chapter shows how to change the country code.

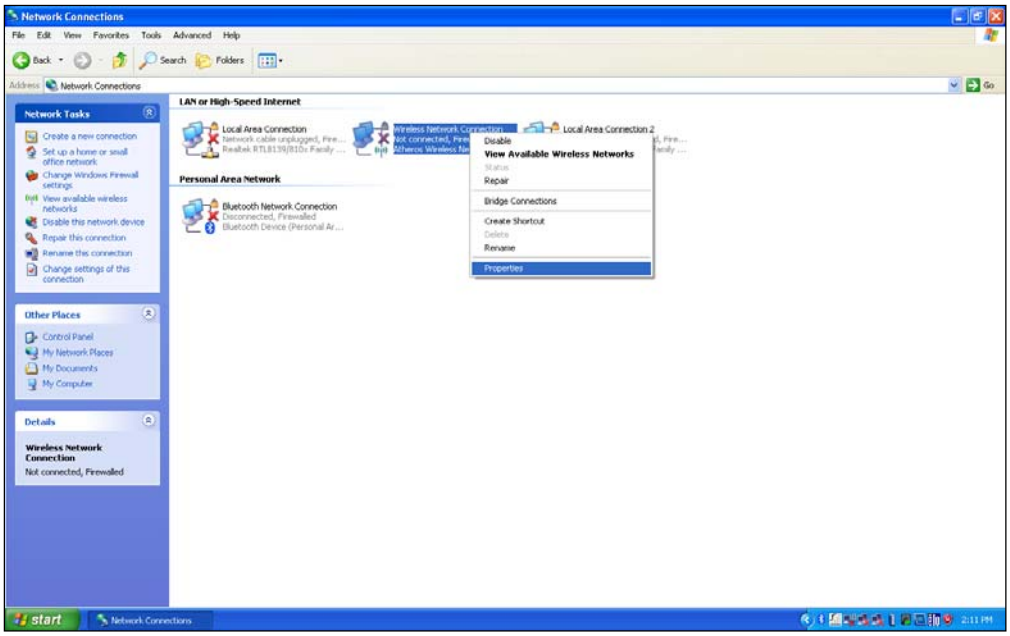
1) Open the control panel of your operating system with thee path: **Start→ Control panel**



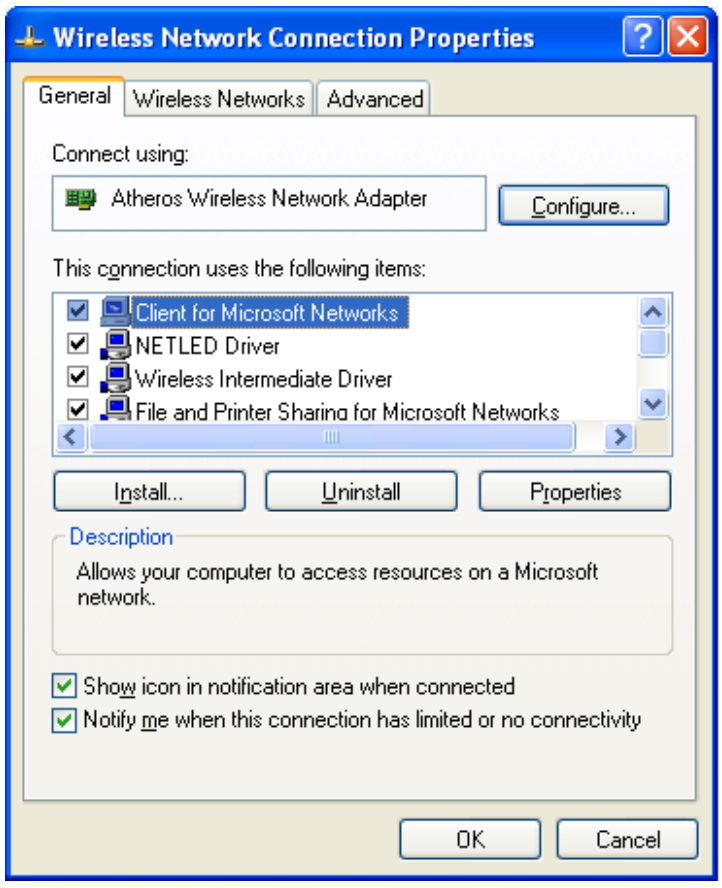
2) Open the network connection via double click.



3) Choose your wireless network connection via right mouse button and click on **Properties.**

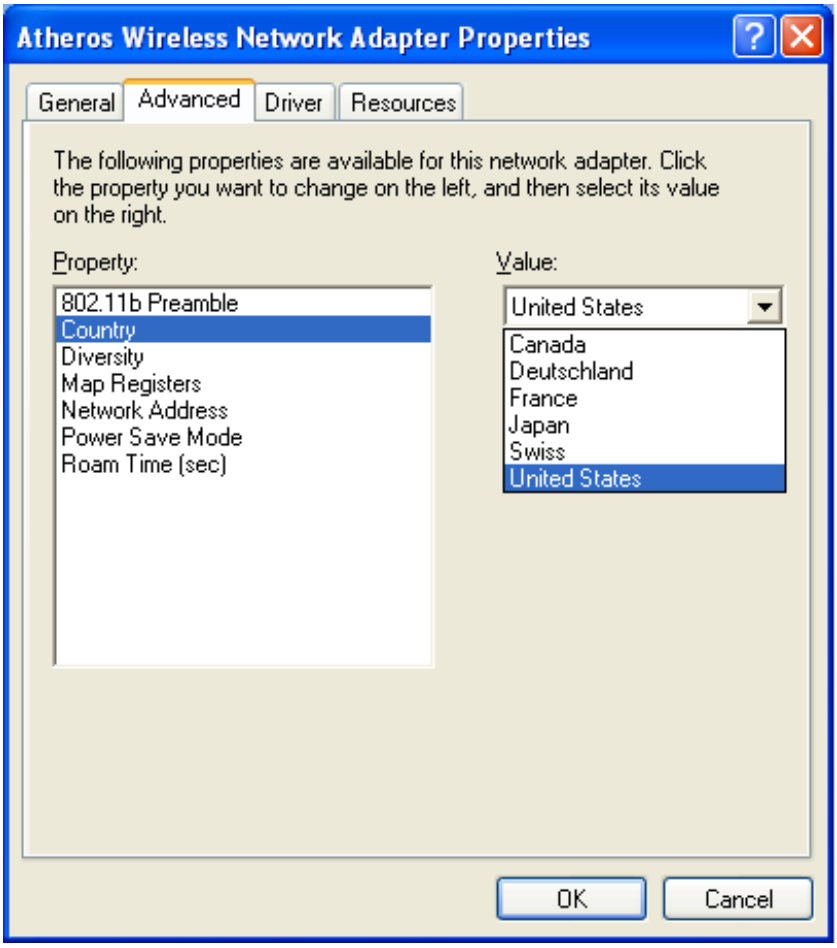


4) The now showing dialgouebox you have to chosse **configure**



© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

5) Change to the tab **Advanced.** Choose the **country** in value to the desired country.



6.14 BLUETOOTH

Note:

Detailled Information with the keyword Bluetooth can be seen in Windows Help which is located in the path: ***Start → Help & Support***

6.15 UMTS (OPTIONAL)

The TT13 device is equipped with a mini PCI Express card of the Sierra Wireless MC8792V type. By using the UMTS card, audio and data signals can be transmitted. The following mobile radio network standards are supported by this card:

GSM / GPRS / EGDE

850 MHz, 900 MHz, 1800 MHz, 1900 MHz

UMTS WCDMA / HSDPA

2100 MHz

UMTS WCDMA / HSDPA

850 MHz, 1900 MHz

TELEPHONY VIA UMTS

An activated SIM card and a headset are required for communication in order to use the telephony (voice call) function in the TT13 device.

Note:

Should the SIM card show no support for UMTS, the device will automatically select the appropriate radio standard, which is supported by the inserted SIM card.

Inserting the SIM card

Open the rubber cover on the device. Push with a small object on the SIM card opener highlighted in yellow, in order to open and remove the SIM card drawer.

Note:

The "WAN" SIM card slot must be used for UMTS functionality.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

Insert the SIM card in the SIM card drawer as shown in the picture.

Push the SIM card drawer back into the device with the SIM card facing down.

6.16 CAMERA (OPTIONAL)

The integrated camera gives the opportunity of recording photographic or video data. The camera has the following characteristics:

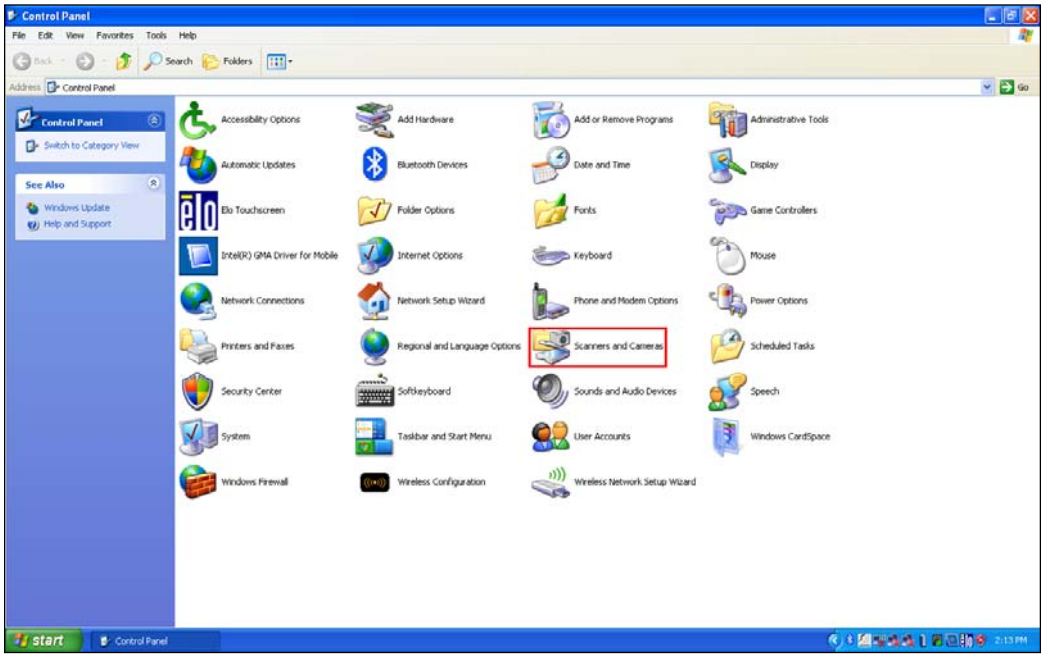
Optical resolution:	1/3.2 inch
Pixel size:	2.8 um
Max. frame rate:	15fps @ UXGA
Effective resolution:	1600 x 1200 UXGA (Format: 4:3) / 2 megapixels
Auto focus:	AF

CAMERA MODULE ACTIVATION

Open the Control Panel of your operating system by using the path:

Start → Control panel

Now start the **Scanner and camera wizard**.

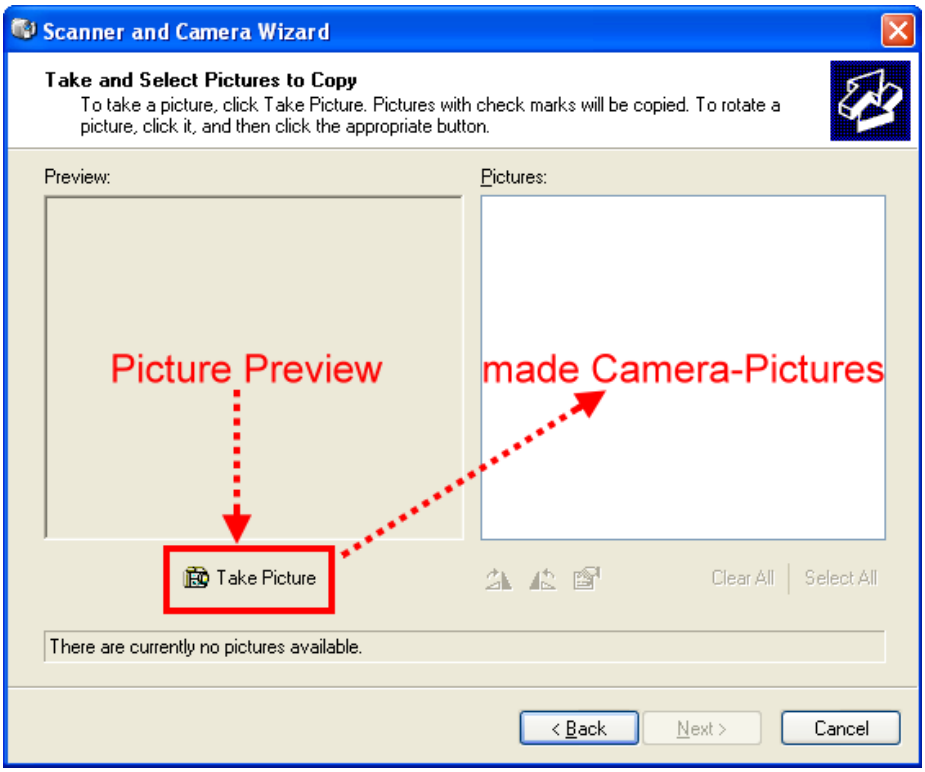


© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

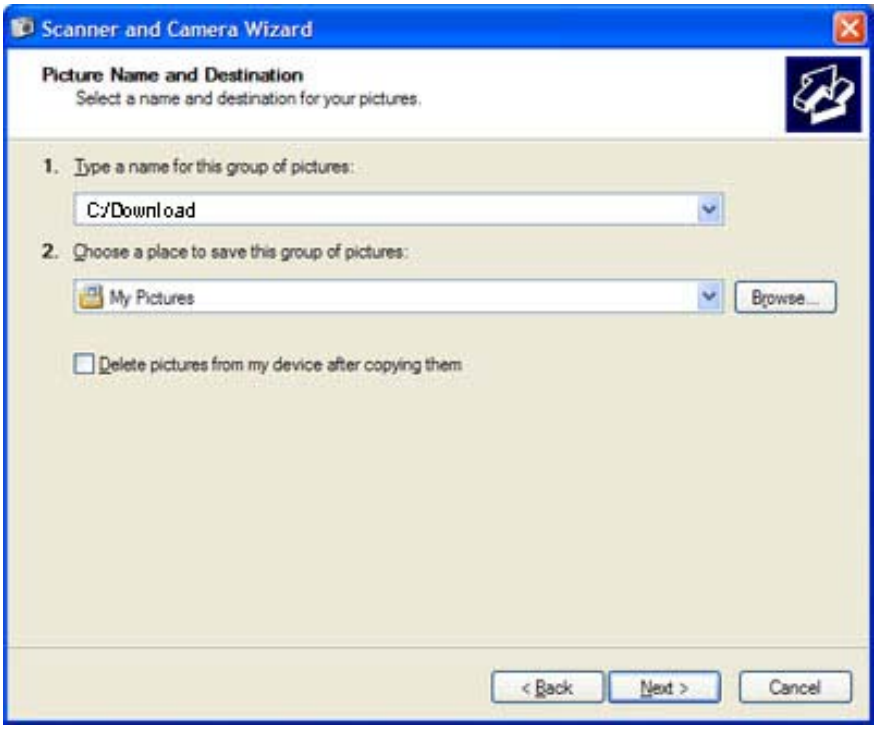
Start the **Scanner and camera wizard** by clicking on the camera icon. Confirm the message shown by clicking on **Next**.

In the following dialogue window, a picture preview, which allows you to take a photo, will appear on the left-hand side. Once the camera has automatically focussed on the selected object, the photo can be created by pushing the **Take photo** button.

Then click on **Next.**



Select a suitable name and storage location in the following dialogue window.



Confirm this with **Finish**.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

6.17 SOFT KEYBOARD

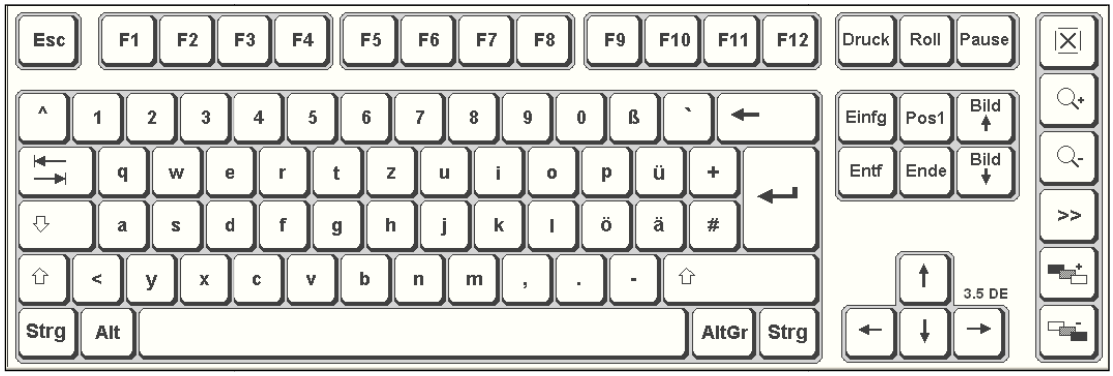
By using the soft keyboard, data can be entered via the touchscreen like with an external keyboard.

Note:

The soft keyboard of the TT13 device can be delivered in 25 languages. Depending on the selected language, the soft keyboard representation and function may vary. Basic functions are identical in all languages. The following languages are available:

German / English (US) / English (UK) / French / Italian / Spanish / Portuguese / Finnish / Turkish / Danish/ Swedish / Japanese / Korean / Greek / Czech / Polish / Romanian / Russian / Serbian / Croatian / Hungarian / Dutch / Slovakian / Slowenian / Bulgarian

DEFAULT VIEW:



HOW TO OPERATE THE SOFT KEYBOARD FROM VERSION 3.11:

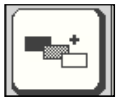
Activate and deactivate the soft keyboard for letter/character input using the touchscreen

Deactivate the soft keyboard

Soft keyboard representation, zoom in

Soft keyboard representation, zoom out

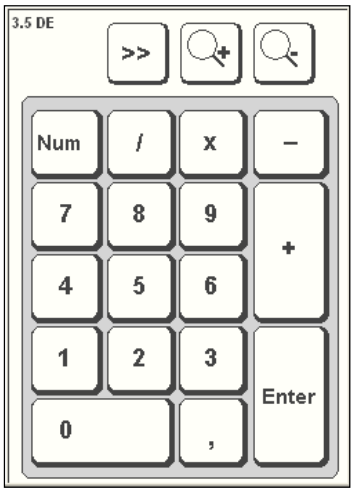
Switch to numeric key pad representation



Increase the soft keyboard transparency

Decrease the soft keyboard transparency

NUMERIC KEY-PAD VIEW:

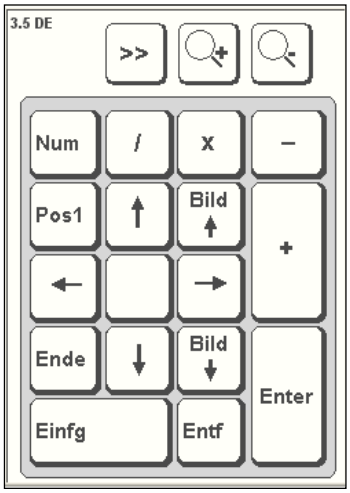


Switch to representation of the function-key bar

Note:

Continuing Information to the Softkeyboard can be taken from the Softkeyboard User Manual.

FUNCTION-KEY BAR VIEW:



Note:

If a function is to be activated, which requires pressing two keys at the same time (e.g. Alt + F4), these keys have to be pushed one after another at the soft keyboard, and the special keys Shift, Alt and Ctrl must always be pushed first.

Due to differences in programming of a large variety of softwares, we cannot ensure that the soft keyboard works properly with all softwares.

When deactivating the soft keyboard, the previously active state (alphanumeric / numeric keys or function keys) will be stored and will be displayed when re-activating the keyboard.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

7 Accessories

7.1 DVD drive / external type (optional

Connection

The DVD drive can be connected to the TT13 device by using the USB interface.

Driver installation

Required drivers will be installed automatically, as soon as the DVD drive is connected with the USB interface.

Functions

The TT13 device must be switched on to open the drive. After pushing the Eject button, the drawer jumps open and must be pulled out completely. The CD/DVD is now placed with the opening on top of the centre piece and carefully pushed downwards until the disk holder snaps in. Subsequently the drive must be pushed in.

Note:

The drive can also be opened by using a mechanical ejector without any power supply. In order to do this, you'd have to push with a pointed object into the marked opening until the drawer jumps open.

Note:

The DVD drive is of the slim-line drive type.

7.2 LASER PRODUCT SAFETY

This product has been designed and manufactured according to FDA regulations "title 21.CFR. chapter1, subchapter J. based on the Radiation Control for Health and Safety Act of 1968". This product is also classified as a class 1 laser product. There is no hazardous invisible laser radiation during operation, because invisible laser radiation emitted inside of this product is completely confined in the protective housings.

The label required by this regulation is shown below.

Caution:

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Optical pickup

Type	: TOP1100S
Manufacturer	: TopRay Technologies, Inc.
Laser output	: Less than 0.5mW on the lens
Wavelength	: 770-800nm (CD) 645-662nm (DVD)
Standard	: IEC60825-1 : 2001

Caution:

Class 1M visible and invisible laser radiation when open. Do not view directly with optical instruments.

Warning:

Class 1M visible and invisible laser radiation with the cover opened. Do not view directly with optical instruments.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

7.3 TRANSPORT CASE

The optionally available transport case features protected transport of the device. By the way the transport case offers the opportunity to store accessories like batteries, power supply and Software.

Exterior view:

7.4 BATTERY CHARGING STATION C4/TT13

Optionally there is the opportunity to charge the battery of the device by an battery charging station. The battery charging station features two battery slots. This allows you to charge two batteries parallelly.

CONNECTING THE 20V DC POWER SUPPLY

Before commisioning the battery charging station, a 20V DC power supply has to be connected. Connect the power supply at the back of the battery charging station.

Note:

The supplied power supply of the device can be used for the battery charging station (20V DC).

Note:

Make sure the system LED is flashing green.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

INSERTION OF THE BATTERIES

The batteries need to be placed into the battery slots to get a connection between the pins of the battery charging station and the battery.

Note:

If the battery is placed correctly into the battery charging station a signal tune will sound and the charging process starts. If the battery gets removed a signal tune is sounding too.

LED STATUS DISPLAY

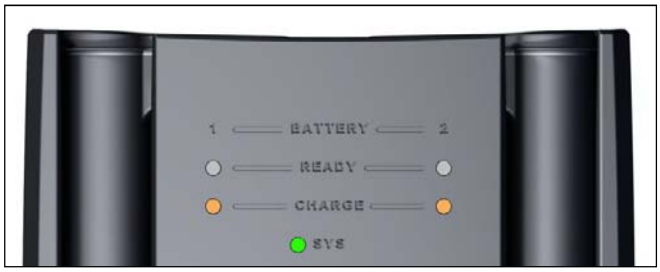
During operation, different system activities will be displayed.

READY-LED DIPLAY	BEHAVIOR	DESCRIPTION
	-	No battery inserted
	static	battery completely charged
	static	battery is defective
CHARGE-LED DISPLAY		
	-	battery is not charging
	flashing	battery is charging
SYS-LED DISPLAY		
-		device is not connected via power supply (power supply/battery)
	static	device is connected to a power supply(power supply/ battery) and powered on
	static	device is not ready / defective power supply

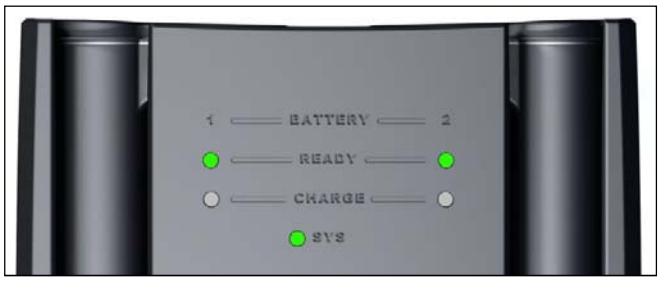
© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

PICTOGRAPHIC ILLUSTRATION

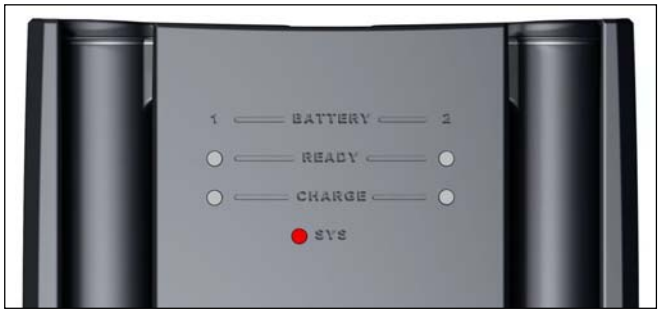
Battery is charging



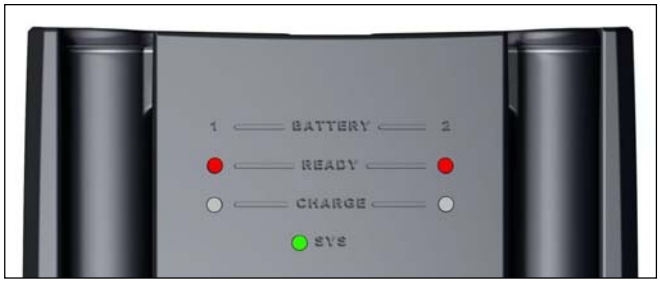
Battery completely charged



Device is not ready / Defective power supply



Battery defective



7.5 Substitution Power Supply

Optional a substitution power supply for operating the device is available.

7.6 Car Power Supply

Optional a car power supply for the device is available. The device can be comfortably supplied with power in vehicles.

7.7 Substitution-Battery

Optional a substitution battery for operation is available.

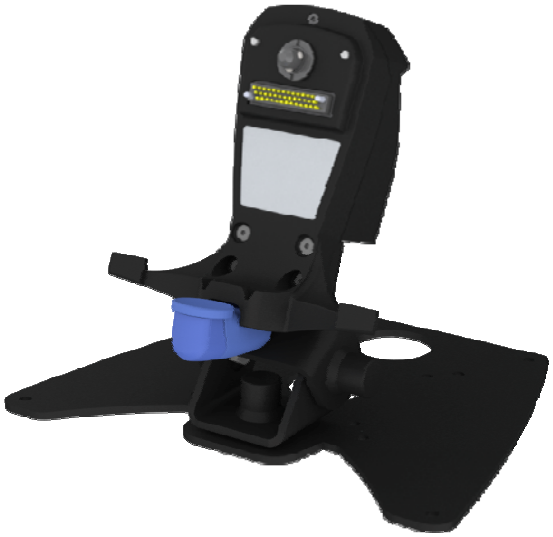
© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

7.8 TT13 MECHANICAL DOCKING ADAPTER

The available TT13 Docking offers in combination with the Table Stand -/ Wall bracket a stable mounting solution for every kind of location.

Via the Docking-Connector on the backside, the device can be connected to a Docking-Station.

The Docking is available in two different types. The first layout can only be used as a attachment for the device. The second layout offers a Docking Connector which is able to transfer data to the interface of the Docking Station.



MOUNTING THE DEVICE TO THE DOCKING

1) The Device needs to be placed on the red marked area behind the turquoise marked area.

2) The Device has to be pressed onto the Docking. The Device should engage perceptible.

REMOVE THE DEVICE FROM THE DOCKING

1) Press turquoise coloured unlocking downwards and hold it this way

2) Bend the device forwards

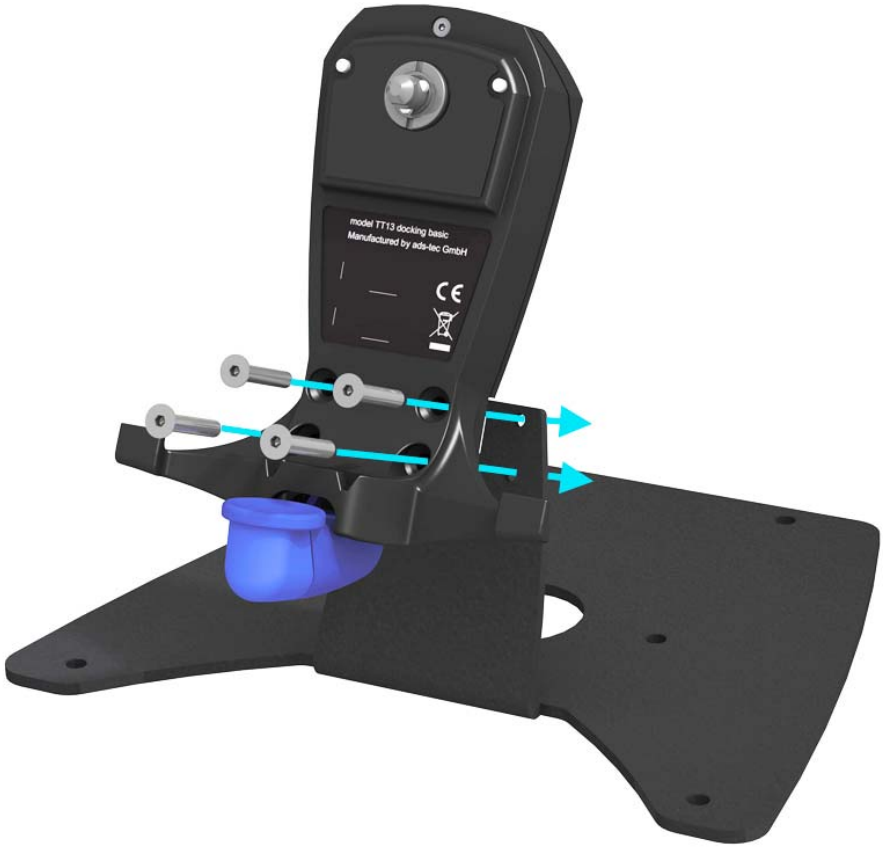
3) Release the device upwards and remove it from the Docking.

The shown Docking-Solution displays the mechanical Engaging. A closable Docking-Solution is also available.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

7.9 TABLE STAND

The available TT13 Docking offers in combination with the Table Stand -/ Wall bracket a stable mounting solution for every kind of location.



Mount the Docking via the supplied M5x30-8.8 SW Inbus screws to the Table Stand.

7.10 WALL BRACKET

The available TT13 Docking offers in combination with the Wall bracket a stable mounting solution for every kind of location.

1) The Wall Bracket needs to be mounted via VESA 75 or 100 to the installation site.

2) The Docking needs to be mounted via the supplied M5x30-8.8 SW Inbus screws to the Wall Bracket.

7.11 ITC1013 SUBSTITUTION PACK OF TOUCH STYLUS

The optional Stand for ITC1013 allows for easy operation anywhere.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

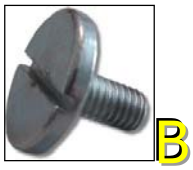
7.12 3 POINT CORD

Optional a 3 Point Cord for mobile Work is available. The 3 Point Cord can be mounted directly onto the device and makes the device to a mobile workstation.

1 x DZ-MECH-33255-1

2 x DZ-MECH-33255-2

Flachkopfschr.M5x20, verz. DIN 921



3 x DZ-MECH-31033-0

1 x DZ-MECH-31039-0

MOUNTING THE 3 POINT CORD ONTO THE DEVICE

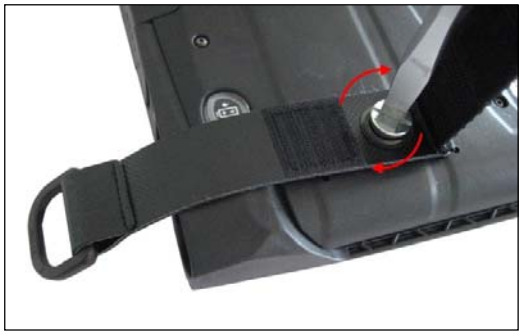
1) First the cord guides need to be mounted. Although the required mounting possibility for left and right handers has to be choosen.

Right handed operation: Choose red marking in picture

Left handed operation: Choose white marking in picture

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

2) Mount the screws as shown in the picture to marked positions.



Note:

Tighten the screws with max. 120 Ncm. The Cords should be movable but without loosening the screws.

MOUNTED VIEW FOR RIGHT HANDED OPERATION

3) The Cord can be added via the carabine intro the Cord guides. The Device is prepared for mobile operation.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

7.14 HAND GRIFF

Alternativ zum Tragegurt ist ein Hand Griff für mobiles Arbeiten erhältlich. Der Hand Griff kann direkt am Gerät montiert werden und macht das Gerät zu einem mobilen Arbeitsplatz.

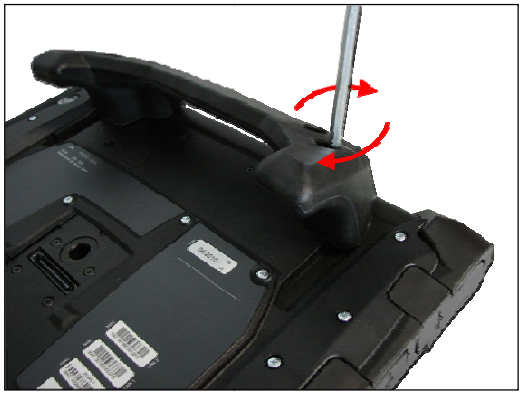
2 x beigestellte Schrauben

1 x Hand Griff

MONTAGE DES HAND GRIFFS AM GERÄT

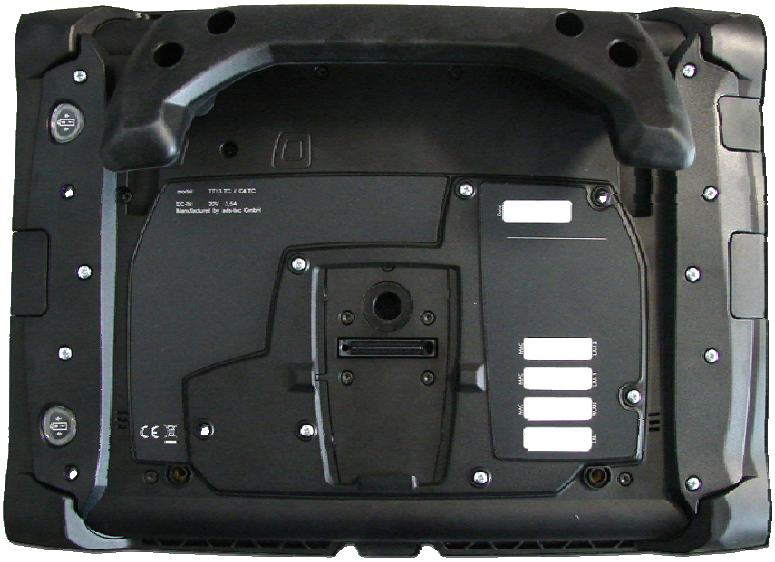
1) Das Hand Strap ist an den markierten Bohrungen zu montieren.

2) Schrauben Sie den Hand Griff an den markierten Stellen wie im Bild zu sehen fest.



Hinweis:
Ziehen Sie die Schrauben mit max. 120 Ncm fest.

3) Montierter Zustand Hand Griff



© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

7.16 ODU 10POL TO RS232 ADAPTERCABLE 1M

The ODU 10pol. RS232 adapter cable enables the connection of the device via the RS232 interface of the connectable device.

7.17 PROTECTION BEZEL

The optional available protection bezel offers protection against transport damage.

8 CERTIFICATIONS

8.1 CERTIFICATIONS / TESTS

The product ITC1013 complies with all documents / standards listed in the CA Conformity Declaration section.

8.2 ELECTROMAGNETIC COMPATIBILITY (EMC)

Certificate of acceptance in accordance with the Federal Electromagnetic Compatibility Act in Germany ("EMVG") of 2007 (respectively the EMC Directive no. 2004/108/EC). In accordance with the Federal Electromagnetic Compatibility Act in Germany, this device is authorised to carry the EC conformity sign "CE". Liable party for this conformity declaration is according to para. 5 of the "EMVG" legislation:

ads-tec GmbH
Raiffeisenstrasse 14
D – 70771 Leinfelden – Echterdingen

Information in accordance with "EMVG", para. 3, section (2) 2:

This device complies with the protective requirements according to EN 61000-6-2 and EN 61000-6-4, class A.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

9 TECHNICAL DETAILS

9.1 DISPLAY DATA

Display	13.3" TFT, WXGA 1280 x 800 pixels Sunlight Readable (optional)
Display colours	262.144 colours
Touchscreen	Resistive 5-wire touchscreen

9.2 COMPUTER DATA

Processor	Intel® Atom Z530P 1,6 GHz,
RAM	1GB DDR2 SO DIMM 2GB DDR2 SO DIMM (optional)
Chip set	Intel® SCH US15WPT Chipset L2C 512KB, FSB533
Graphic memory	Intel Graphics Media Accelerator GMA500
Mass storage device	2,5" SATA hard drive with at least 100 GB capacity, SSD 2,4,8 oder 16GB PATA external USB DVD drive in a metal housing (optional)
Interfaces	At the base device: 3 x USB 2.0 (of which 1 is mounted recessed in the housing, maximum load for 1 port up to 1.5A) 2 x USB 2.0 (toghether max. 1,5A)
Network	1x Ethernet (10/100/1000 Mbit RJ45 WAKE on LAN),
Wireless	WLAN 802.11 a/b/g/n
Slots	1x Wireless Smart Card ISO 14443 A, 1x Smart Card Reader für SCM (Smart Card based Management)
Sound	2x speakers, 1x microphone,
Camera	2.0 megapixel auto-focus camera module (optional) (not in combination with UMTS)
Power supply	20V DC +/- 20%
Accumulator	Li-Ion smart-battery accumulator with 14.4V and 32Wh, 2 accumulator slots

9.3 GENERAL DATA

External dimensions	355 mm x 262 mm x 41 mm (W x H x D)
Weight	approx. 2.0 kg
Protection class	IP 54 (front sided IP65)
Power consumption	20 Watts (typical)

10 Service and Support

ads-tec and appointed partner companies offer you comprehensive maintenance and support services, ensuring quick and competent support should you have any questions or concerns with regard to ads-tec products and equipment.

ads-tec products may also be provided and installed by partner companies. Such devices may have customised configurations. Should any questions arise with regard to such specific settings and software installations, please contact the system supplier in question as ads-tec will not be able to reply to such questions.

ads-tec does not provide support services for any device or unit that was not bought directly from ads-tec. In any such case, maintenance and support is provided solely by the partner company that supplied the device or unit.

10.1 ads-tec Support

The ads-tec support team is available for inquiries by direct customers between 8:30am and 5:00pm, Monday to Friday. The support team can be reached via phone, fax or email.

Tel: +49 711 45894-500

Fax: +49 711 45894-990

E-Mail: mailbox@ads-tec.de

10.2 Company Address

ads-tec
Automation Daten- und Systemtechnik GmbH
Raiffeisenstraße 14
70771 Leinfelden-Echterdingen
Germany

Tel: +49 711 45894-0

Fax: +49 711 45894-990

E-Mail: mailbox@ads-tec.de

Home: www.ads-tec.de

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

11 Component replacement

Warning:

Make sure that all cable connections are removed and that all supply voltages are disconnected from the device!

11.1 Opening the service slot

Remove the six screws at the service slot on the device rear panel. The screws can be removed by using a size Tx 8 screw driver. By using the groove at the service slot bottom, you can remove the rear cover.

Removing the service slot cover gives you the opportunity of replacing the following components:

1 HDD/Flash

2 Lithium battery

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

11.2 HDD/SSD (MASS-STORAGE DEVICE) REPLACEMENT

REMOVAL

The pulling aid provided on the HDD should be used for removing the HDD from the device. Please pull the HDD carefully out.

INSTALLATION

The HDD must carefully be lowered into the slot and then pushed down until you feel that it has snapped in.

11.3 REPLACING THE LITHIUM BATTERY

INSTALLING / REPLACING THE BATTERY

1) Now the lithium battery can be removed. It must only be replaced by the same battery type. The type of battery to be used is:

Lithium battery CR2032 230mAh
(e.g. ads-tec part number: DZ-SONS-04075-1)

Please observe the correct polarity when replacing the battery.

Warning:

There is a risk of explosion if the battery is replaced with the wrong type or with the wrong polarity. Adhere to the valid regulations for environmentally-friendly disposal of batteries if the battery has reached the end of its life cycle.

© ads-tec GmbH • Raiffeisenstr.14 • 70771 Leinfelden-Echterdingen

12 CE CONFORMITY DECLARATION

ITC1013

EG-Konformitätserklärung / EC Declaration of Conformity

Hersteller / Adresse: *Manufacturer / Address:* **ads-tec GmbH Raiffeisenstr. 14 70771 Leinfelden-Echterdingen / Germany**

Produktbeschreibung: *Productdescription:* ITC1013 Modell / *Model:* **DVG-ITC1013-xxx-yy**

xxx Ist eine fortlaufende Nummer zwischen 001 bis 799 und definiert die System-Konfigurationen.
Is a continuous number between 001 to 799 and defines the System-configurations.

yy Zwei unterschiedliche Buchstaben abhängig vom Betriebssystem
Two varying letters depending on the Operating System

Das oben beschriebene Produkt stimmt in der von uns in Verkehr gebrachten Ausführung mit den Bestimmungen folgender Europäischer Richtlinien überein:
The product described above in the form as delivered is in conformity with the provisions of the following European Directives:

1999/5/EC Richtlinie des Europäischen Parlaments und des Rates über Funkanlagen und Telekommunikationsendeinrichtungen und die gegenseitige Anerkennung ihrer Konformität (Anwendung trifft nur zu bei Produkten mit Funk-Kommunikation)
Directive of the European Parliament and of the Council on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity (Applies only for products with Radio-Communication)

2004/108/EC Richtlinie des Europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit (Anwendung trifft nur zu bei Produkten ohne Funk-Kommunikation)
Directive of the European Parliament and of the Council on the approximation of the laws of the Member States relating to electromagnetic compatibility (Applies only for products without Radio-Communication)

2006/95/EC Richtlinie des Europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen
(Anwendung trifft nur zu bei Produkten mit 50 – 1000V AC Eingangsspannung)
Directive of the European Parliament and of the Council on the approximation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits
(Applies only for products with 50 – 1000V AC input voltage)

CE-Kennzeichnung / CE marking : 11

Das oben beschriebene Produkt ist konform mit den Anforderungen der folgenden Dokumente:
The product of the declaration described above is in conformity with the requirements of the following documents:

EU harmonisierte Normen *EU harmonized Standards*

EMV/*EMC*: EN 55022:2006+A1:2007 EN 55024:1998+A1:2001+A2:2003
EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2008
Sicherheit/*Safety*: EN 60950-1:2006 +A11:2009

Angewandte harmonisierte Normen, wenn das oben beschriebene Produkt optional mit Funk-Kommunikation ausgestattet ist:
Harmonized standards applied, if the above described product is equipped with radio-communication optional:

EMV/*EMC*: EN 301 489-1 V1.8.1; EN 301 489-17 V2.1.1
Funk/*Radio*: EN 300 328 V1.7.1 (1) ; EN 301 893 V1.5.1 (2)
Personenschutz/*Operator Protection*: EN 50371:2002 (3)

(1) im Fall von Datenübertragungseinrichtungen im 2,4GHz Band / *in case of data communication in the 2,4GHz Band*
(2) im Fall von Datenübertragungseinrichtungen im 5,0GHz Band / *in case of data communication in the 5GHz Band*
(3) Wenn die Emissionen des Produkts insgesamt kleiner 20mW / *if emission of product is less than 20mW*

Ort, Datum *Place and date of issue* Leinfelden-Echterdingen, 07/02/2011

Name und Unterschrift *Name and signature*

Elmar Bossler
- Quality Manager -

i.V.
Thomas Mögerle
- Manager Business Unit Data Systems –

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie nach §443 BGB. Die Sicherheits- und Einbauhinweise der mitgelieferten Produktdokumentation sind zu beachten.
This declaration certifies the conformity to the specified directives but does not imply any warranty for properties. The safety and installation documentation accompanying the product shall be considered in detail.